

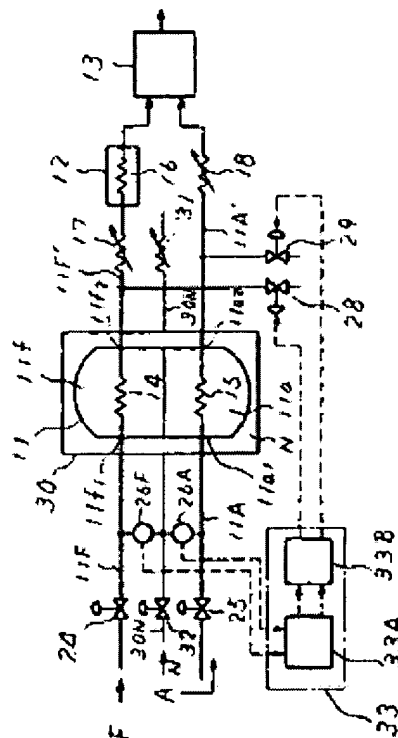
FUEL CELL SYSTEM

Patent number: JP60007065
Publication date: 1985-01-14
Inventor: TOMIKI HIROSHI; others: 03
Applicant: TOSHIBA KK
Classification:
 - international: H01M8/04
 - european:
Application number: JP19830112868 19830624
Priority number(s):

Abstract of JP60007065

PURPOSE: To increase differential pressure control capability without decrease of life and performance of a fuel cell system by detecting differential pressure generated between fuel gas and oxidizing gas which are supplied to a fuel cell, and controlling it within a safety differential pressure region.

CONSTITUTION: A fuel gas side differential pressure gauge 26F is arranged between a fuel gas supply pipe 11F and an inactive gas supply pipe 30N which are connected to a fuel cell main body 11 accommodated in a sealed container 30. An oxidizing gas side differential pressure gauge 26A is set between an oxidizing gas supply pipe 11A and the inactive gas supply pipe 30N. When a differential pressure signal detected with differential pressure gauges 26F and 26A quickly exceeds the upper limit of a safety differential pressure region, a control computing element 33A of a differential pressure controller 33 computes variation rate of differential pressure. When calculated results exceed a specified value, a fuel gas exhaust valve 28 and an oxidizing gas exhaust valve 29 are automatically opened through a controller 33B, and gas on the high pressure side is exhausted.



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PN: 60007065
DT: JPA1 PATENT APPLICATION
TIEN: FUEL CELL SYSTEM.
IC: H01M008-04
PA: TOSHIBA CORP.
IN: TOMIKI HIROSHI. KONO MITSURU. HAYASHI HIROSHI. KUWABARA
TAKESHI.
AI: 19830624 JP 58-112868
OI: 19850114
AB: PURPOSE: To increase differential pressure control capability
without decrease of life and performance of a fuel cell system by
detecting differential pressure generated between fuel gas and
oxidizing gas which are supplied to a fuel cell, and controlling
it within a safety differential pressure region. CONSTITUTION: A
fuel gas side differential pressure gauge 26F is arranged between
a fuel gas supply pipe 11F and an inactive gas supply pipe 30N
which are connected to a fuel cell main body 11 accommodated in a
sealed container 30. An oxidizing gas side differential pressure
gauge 26A is set between an oxidizing gas supply pipe 11A and the
inactive gas supply pipe 30N. When a differential pressure signal
detected with differential pressure gauges 26F and 26A quickly
exceeds the upper limit of a safety differential pressure region,
a control computing element 33A of a differential pressure
controller 33 computes variation rate of differential pressure.
When calculated results exceed a specified value, a fuel gas
exhaust valve 28 and an oxidizing gas exhaust valve 29 are
automatically opened through a controller 33B, and gas on the high
pressure side is exhausted.
OS: MIJP011HPAJ JP 60007065 A1 001
SO: JPO & Japio-850114
ADDD: 19990818